OAK RIDGE NATIONAL LABORATORY MANAGED BY UT-BATTELLE, LLC POST OFFICE BOX 2008, OAK RIDGE, TENNESSEE 37831-6170

ORNL

FOREIGN TRIP REPORT

TA 423377

DATE: 12/04/2018

SUBJECT: Foreign Trip Report for Douglas G. Bowen travel to AWE (UK), IRSN (FR), and JRC (BE) to execute

meetings for the DOE/NNSA Nuclear Criticality Safety Program (NCSP)

TO: Angela Chambers, Nuclear Criticality Safety Program Manager, National Nuclear Security

Administration / NA-511/GTN, Pantex Plant, PO Box 30020, Amarillo, TX 79120-0020

FROM: Douglas G. Bowen, Ph.D.

Nuclear Criticality Safety Program Execution Manager

Group Leader of the Nuclear Data and Criticality Safety Group, Oak Ridge National Laboratory

(ORNL)

MEETING: DOE/NNSA NCSP Meetings with AWE, IRSN, and JRC-Geel to Enhance International

TITLE Collaborations

MEETING: 5/31-6/1 – AWE, Reading, UK; 6/4-6/5 – IRSN, Paris, FR; and 6/7-6/8 – JRC-Geel, Belgium

LOCATION MEETING:

DATES 05/29/18 – 06/09/18

ATTENDEES:

ON BEHALF OF Douglas G. Bowen

NCSP

MEETING: This meeting was to travel with the NCSP Manager, Dr. Angela Chambers, NNSA NA-511, to visit the sites of our international collaborators, Atomic Weapons Establishment (AWE) in Reading,

NCSP UK, L'Institut de Radioprotection et de Sûreté Nucléaire (IRSN) in Paris, France, and the

European Commission's Joint Research Centre (JRC) Gelina Accelerator in Geel, Belgium. The benefit to the NCSP is to enhance and expand international collaborations with these

institutions.

MEETING The purpose of the travel to expand and enhance our international collaborations with AWE,

PURPOSE: IRSN, and JRC-Geel. An agenda for the trip is attached to this trip report.

SITES VISITED: AWE, Reading, UK, IRSN, Paris, France, and JRC GELINA Facility, Geel, Belgium.

ABSTRACT:

Dr. Douglas G. Bowen and Dr. Angela Chambers traveled to AWE, IRSN, and JRC-Geel to discuss the NCSP Mission and Vision document and collaborative tasks for the annual 5-year planning process. AWE and IRSN have both been collaborating with the NCSP for years. Discussions about additional collaborative activities in training and education, nuclear data, and other NCSP technical program elements were discussed. The meetings at JRC-Geel were particularly important because the European Union wanted to formalize NCSP collaborations via a new collaboration agreement with ORNL or NNSA. After some good discussion, the NCSP and JRC-Geel will have a collaboration agreement via NA-24 to continue the NCSP Nuclear Data program for years to come. The NCSP meetings with JRC-Geel staff also focused on implications of DOE/SC-Nuclear Physics policies at the ORNL National Isotope Development Center (NIDC) that have precluded economical isotope leases for neutron scattering measurements. An action was taken to discuss this issue with DOE/SC-NP after returning from this trip.

DISTRIBUTION

- 1. Douglas G. Bowen (<u>bowendg@ornl.gov</u>)
- 2. Angela Chambers (angela.chambers@nnsa.doe.gov)
- 3. Lori Scott (<u>LoriscOtt@aol.com</u>)

NCSP AWE/IRSN/JRC Trip May 29-June 9, 2018

		Bowen's Arrangements	Chambers' Arrangements	Meeting Start	Meeting En
		Travel	Day	_	_
	29-May	US to London Heathrow International Airport	Day	_	_
1		Flights – Delta DI 4824 TYS-DTW Denarts 5:15nm, DI 18 DTW-LHR	Angela - United UA4066 - AMA- IAH Departs 5:00 PM, UA5 - IAH - LHR	_	
	TUESDAY	Arrives 11:10am	Arrives 11:35 AM May 30		_
		No ho	itel	-	-
	30-May	Rest D	Day	-	-
	50-ividy	Reading	g, UK	-	-
2		Travel via bus or taxi from airport to hotel Hotel – Crowne Plaza Reading – Caversham Bridge, Richfield Avenue,		-	-
	WEDNESDAY	Reading RG1 SBD United Kingdom	Hotel – Hilton Reading, Drake Way, Reading RG2 0GQ, United	_	_
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	31-May	AWE	E	8:30 AM	5:15 PM (+dinner 7:0
	31 Way	Reading	z, UK	-	(+ullillel 7.0
3		Travel to AWE site from hotel: Ask AWE to pick us up or take taxi to		_	_
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	THURSDAY	Hotel – Crowne Plaza Reading – Caversham Bridge, Richfield Avenue,	Hotel – Hilton Reading, Drake Way, Reading RG2 0GQ, United		_
		Reading RG1 8BD, United Kingdom Phone: +44 118 925 9988	(ingdom Phone: +44 118 916 9000		
	1-Jun	AWE		No meetings	– AWE OFF
		Reading Set up meeting location for this day - AWE facilities will be closed	3, UN	-	_
4	EDIDAY		Hotel – Hilton London Angel Islington, 53 UPPER STREET, LONDON,		
	FRIDAY		N1 OUY, UNITED KINGDOM	_	-
		Phone: +44 20 7841 3540	Phone: +44-207-3547700		
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	2-Jun	London		_	-
5		No tra	vel	-	-
3	SATURDAY		Hotel – Hilton London Angel Islington, 53 UPPER STREET, LONDON,		
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		Phone: +44 20 7841 3540	Phone: +44-207-3547700"		
	3-Jun	3-Jun Travel Day		-	-
		Travel from London, UK, to	o Paris, FR. (2.5 hours)	-	-
	SUNDAY	Eurostar train – https://www.eurostar.com/us-en/?. London station is: London St. Pancras International. Paris station is Paris Gare du	Coach 11 Seats: 77, 78, 83 and 84.	_	_
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	8-Jun	JRC/GELINA		9:00 AM	4:00 PM
		Geel, Belgium		-	ı
11	FRIDAY	No Travel		-	-
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12	9-Jun	Travel Day		-	-	
	SATURDAY	Brussels, Belgium to US		-	-	
		Flights – DL81 BRU-ATL Departs 11:05am, DL 3315 ATL-TYS Arrives 6:50pm	Flights – United	UA973 BRU - ORD departs 11:00 AM UA1128 ORD - IAH departs 2:12 PM UA4023 IAH - AMA arrives 8:15 PM	-	-
		No h	otel		-	-



AWE/NCSP Meeting Agenda

May 31, 2018



	_ ,				
Time	Agenda Topic	Individual/ Organisation			
Thursday, 31 ^s	Thursday, 31 st May 2018 – Gemini meeting room (TBC)				
08:30	Meet at Pass Office for site access	Leo Clark/Richard Jones, AWE			
08:45	Walk to Gemini	Leo Clark/Richard Jones, AWE			
9:00	Welcome and Introductions;	Angela Chambers, NCSP			
	Outline the purpose of visit	Andrew Randewich, AWE			
9:20	Overview discussion;				
	NCSP program mission/vision	Angela Chambers, NSPC			
		Chris Wilson, AWE			
	AWE collaborations	Neil McMillian, AWE			
		Richard Jones, AWE			
10:00	Discussion on areas to strongthon and anhance	Emily Cornock, AWE All			
10:00	Discussion on areas to strengthen and enhance collaborations between AWE/NCSP	All			
10:30	Coffee Break				
10:45	Discussion about NCSP/AWE collaborative tasks from	All			
	the 5 year plan				
	 Discussion/Summary Tasks from the FY18 NCSP 				
	5 year plan (Appendix F – see attached table)				
	Generation of the collaboration table for the				
10.15	NCSP FY19 5-year plan (Appendix F)				
12:15	Buffet lunch (working)				
12:15	Discussion of specific projects of interest (Open tasks)	All			
	(See attached table from FY18 5 year plan)				
	Training and education topics				
	JOWOG 30-23-00 criticality safety topics of				
	discussion Other tenies of interest				
13:15	Other topics of interest Travel to PTC	ТВС			
13:30	Tour of AWE PTC	TBC			
16:00	Travel to alternate meeting location (TBC)	TBC			
16:00	General Discussion/ Wrap up	TBC			
17:15					
	Return to main gate	Leo Clark/Richard Jones, AWE			
19:00	Evening meal + further discussion?				



IRSN/NCSP Meeting Agenda

NESP MICLEAR CRITICALITY SAFETY PROGRAM

June 4-5, 2018

Time Required	Agenda Topic	Responsible Org/Person
Monday, Jui	ne 4, 2018	
9:00-9:30	Welcome and introductions	IRSN/NCSP
	Discussion about the purpose of the visit	
9:30-10:30	Status of collaborative work	
	IRSN collaboration overview presentation	EVO
	NCSP overview presentation	CHAMBERS
10:30-	Discussion of FY18 NCSP/IRSN Collaborative Tasks (see the attached	
12:15	table, "accident dosimetry" tasks will be discussed on Tuesday)	
	 IRSN to present summary slides for each task in FY18 NCSP 5- 	IRSN
	year plan	
	 IRSN drivers for collaboration 	
	 NCSP to present summary slides for FY18 tasks 	BOWEN
	NCSP drivers for the task	DOWEN
	Lunch	
14:00-	Generation of Collaboration Table for the FY19 NCSP 5-year Plan	All
15:30	(Appendix E)	
15:30-	Visit of the Emergency Response Center	IRSN
16:30		
16:30-	Visit to the General Director	IRSN
16:45		
16:45-	Presentation of the INSIDER and PRINCESS projects	IRSN
17:30	, ,	
Tuesday, Jui	ne 5, 2018	
9:00-10:00	General discussion/New Topics	All
5.00 =0.00	Training and Education/Nuclear Data	'
	AMPX workshop at IRSN (ORNL support)	
10:00-	Discussion of FY18 NCSP/IRSN Collaborative Tasks (see the attached	
11:15	table, "accident dosimetry" tasks only)	
-	IRSN to present summary slides for each task in FY18 NCSP 5-	IRSN
	year plan	
	IRSN drivers for collaboration	
	 NCSP to present summary slides for FY18 tasks 	
	 NCSP drivers for the task 	BOWEN
11:15-	Tour of the Nuclear Accident Dosimetry Laboratory	IRSN
12:15		
	Lunch	
14:00-	Collaborations of current NCSP and IRSN Nuclear Data	All
16:00	measurements and evaluations (ORNL SNS, RPI, GELINA, N TOF)	
	ORNL/IRSN collaboration	
	SNS, RPI, GELINA measurements	
16:00-	Final Discussion	
17:00		
17:00		



JRC/NCSP Meeting Agenda

7 – 8 June 2018



Time	Agenda Topic	Responsible Org/Person				
Thursday, June 7, 2018						
09H30 - 10H00	Welcome and introductions Discussion about the purpose of the visit	JRC/NCSP				
10H00 - 12H00 12H00 - 13H30	Overview of the NCSP program: • Data needs for the NCSP • Experimental facilities for Nuclear data measurements • Geel • RPI • Others • Evaluations of the data • Data processing and testing • Critical Experiments • Collaborations • Education Lunch	D. Bowen A. Chambers				
12H00 - 13H30	Overview of the JRC-Geel nuclear data activities					
13H30 – 15H00	 Facility Experimental capabilities Nuclear data work Support to IAEA and WPEC Collaborations 	A. Plompen (or J. Heyse)				
15H00 – 17H00	Status of Y12 NCSP target fabrication for JRC/GELINA and ORELA Target Shipment	All				
Friday, June 8	Friday, June 8, 2018					
09Н30 – 11Н00	Future of the JRC-NCSP collaboration and how could be established within the EU-DOE work plan.	D. Bowen A. Chambers				
11H00 – 12H00	Visit of MONNET and experimental capabilities. Possible use for the NCSP and NDA nuclear data needs.	P. Siegler				
12H00 - 13H30	Lunch					
14h00 – 15H00	Tour of the GELINA facility and TOF stations	J. Heyse				
15H00 – 16H00	Final Discussion	All				